

COC# 120

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
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## CHAIN OF CUSTODY REPORT

Work Order #: M 106084

CLIENT: BRISTOL				INVOICE TO: BRISTOL				<b>TURNAROUND REQUEST in Business Days*</b> Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10 7 5 4 3 2 1 &lt;1</div> <div>STD. 5 4 3 2 1 &lt;1</div> </div> Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div>5 4 3 2 1 &lt;1</div> <div>STD. <span style="border: 1px solid black; padding: 2px;">OTHER</span> Please Specify</div> </div> <p><small>*Turnaround Requests less than standard may incur Rush Charges.</small></p>											
REPORT TO: ANNE KRANAWETTER				P.O. NUMBER: 21090															
ADDRESS: AMCHITKA ISLAND, AK				REQUESTED ANALYSES															
PHONE: 907-770-0974 FAX: 770-0975				PROJECT NAME: AMCHITKA															
PROJECT NUMBER: 21090				PROJECT NUMBER: 21090															
SAMPLED BY: CRM R/SJC				SAMPLED BY: CRM R/SJC															
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		DRO		BTEX						MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID				
1. OIAM B707SL		6/27/01 1105		X		X						S	2						
2. OIAM B708SL		6/27/01 1110		X		X						S	2						
3. OIAM B709SL		6/27/01 1115		X		X						S	2						
4. OIAM B710SL		6/27/01 1120		X		X						S	2						
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			
11.																			
12.																			
13.																			
14.																			
15.																			
RELINQUISHED BY: James Clark				FIRM: BRISTOL				DATE: 6/27/01				RECEIVED BY: Craig Brodke				DATE: 6/27/01			
PRINT NAME: James Clark				FIRM: BRISTOL				TIME: 13:10				PRINT NAME: Craig Brodke				FIRM: NCA			
RELINQUISHED BY:				FIRM:				DATE:				RECEIVED BY:				DATE:			
PRINT NAME:				FIRM:				TIME:				PRINT NAME:				FIRM:			
ADDITIONAL REMARKS: AGT B7 Tank Foot print														TEMP: 7.0°C		PAGE 1 OF 1			



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541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter  
Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/27/01 13:11. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson  
Environmental Group Leader

Work Orders included in this report:

**M106084**



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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/29/01 00:06

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMB707SL	M106084-01	Soil	06/27/01 11:05	06/27/01 13:11
01AMB708SL	M106084-02	Soil	06/27/01 11:10	06/27/01 13:11
01AMB709SL	M106084-03	Soil	06/27/01 11:15	06/27/01 13:11
01AMB710SL	M106084-04	Soil	06/27/01 11:20	06/27/01 13:11

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

1 of 7



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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/29/01 00:06

**Diesel Hydrocarbons (C10-C25) per AK102**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMB707SL (M106084-01) Soil</b>						Sampled: 06/27/01 Received: 06/27/01			
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/27/01	06/28/01	0106096	
Surr: 1-Chlorooctadecane	93.1 %	50-150							
Surr: Triacontane	102 %	50-150							
<b>01AMB708SL (M106084-02) Soil</b>						Sampled: 06/27/01 Received: 06/27/01			
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/27/01	06/28/01	0106096	
Surr: 1-Chlorooctadecane	86.1 %	50-150							
Surr: Triacontane	94.9 %	50-150							
<b>01AMB709SL (M106084-03) Soil</b>						Sampled: 06/27/01 Received: 06/27/01			
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/27/01	06/28/01	0106096	
Surr: 1-Chlorooctadecane	99.6 %	50-150							
Surr: Triacontane	106 %	50-150							
<b>01AMB710SL (M106084-04) Soil</b>						Sampled: 06/27/01 Received: 06/27/01			
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/27/01	06/28/01	0106096	
Surr: 1-Chlorooctadecane	91.3 %	50-150							
Surr: Triacontane	99.3 %	50-150							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/29/01 00:06

## BTEX, MTBE and Naphthalene per EPA Method 8021B

### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMB707SL (M106084-01) Soil</b>					Sampled: 06/27/01 Received: 06/27/01				
Benzene	ND	0.0425	mg/kg dry	50	1B BTEX/MTI	06/28/01	06/28/01	0106100	
Toluene	ND	0.170	"	"	"	"	"	"	
Ethylbenzene	ND	0.170	"	"	"	"	"	"	
Xylenes (total)	ND	0.340	"	"	"	"	"	"	
Naphthalene	ND	1.70	"	"	"	"	"	"	A-01
Surr: 4-BFB	83.3 %	50-150							
<b>01AMB708SL (M106084-02) Soil</b>					Sampled: 06/27/01 Received: 06/27/01				
Benzene	ND	0.0399	mg/kg dry	50	1B BTEX/MTI	06/28/01	06/28/01	0106100	
Toluene	ND	0.160	"	"	"	"	"	"	
Ethylbenzene	ND	0.160	"	"	"	"	"	"	
Xylenes (total)	ND	0.319	"	"	"	"	"	"	
Naphthalene	ND	1.60	"	"	"	"	"	"	A-01
Surr: 4-BFB	86.5 %	50-150							
<b>01AMB709SL (M106084-03) Soil</b>					Sampled: 06/27/01 Received: 06/27/01				
Benzene	ND	0.0378	mg/kg dry	50	1B BTEX/MTI	06/28/01	06/28/01	0106100	
Toluene	ND	0.151	"	"	"	"	"	"	
Ethylbenzene	ND	0.151	"	"	"	"	"	"	
Xylenes (total)	ND	0.302	"	"	"	"	"	"	
Naphthalene	ND	1.51	"	"	"	"	"	"	A-01
Surr: 4-BFB	86.8 %	50-150							
<b>01AMB710SL (M106084-04) Soil</b>					Sampled: 06/27/01 Received: 06/27/01				
Benzene	ND	0.0337	mg/kg dry	50	1B BTEX/MTI	06/28/01	06/28/01	0106100	
Toluene	ND	0.135	"	"	"	"	"	"	
Ethylbenzene	ND	0.135	"	"	"	"	"	"	
Xylenes (total)	ND	0.269	"	"	"	"	"	"	
Naphthalene	ND	1.35	"	"	"	"	"	"	A-01
Surr: 4-BFB	85.4 %	50-150							

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/29/01 00:06

**Physical Parameters per APHA/ASTM/EPA Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMB707SL (M106084-01) Soil</b>					Sampled: 06/27/01 Received: 06/27/01				
% Solids	78.9	0.0100 % by Weight		1	Gravimetric	06/27/01	06/28/01	0106097	
<b>01AMB708SL (M106084-02) Soil</b>					Sampled: 06/27/01 Received: 06/27/01				
% Solids	85.5	0.0100 % by Weight		1	Gravimetric	06/27/01	06/28/01	0106097	
<b>01AMB709SL (M106084-03) Soil</b>					Sampled: 06/27/01 Received: 06/27/01				
% Solids	88.8	0.0100 % by Weight		1	Gravimetric	06/27/01	06/28/01	0106097	
<b>01AMB710SL (M106084-04) Soil</b>					Sampled: 06/27/01 Received: 06/27/01				
% Solids	84.6	0.0100 % by Weight		1	Gravimetric	06/27/01	06/28/01	0106097	

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/29/01 00:06

### Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0106096 - 3545 ASE

##### Blank (0106096-BLK1)

Prepared & Analyzed: 06/27/01

Diesel Range Organics	ND	150	mg/kg wet						
Surr: 1-Chlorooctadecane	21.0		"	23.4		89.7	50-150		
Surr: Triacontane	20.3		"	23.4		86.8	50-150		

##### LCS (0106096-BS1)

Prepared & Analyzed: 06/27/01

Diesel Range Organics	1310	150	mg/kg wet	1250		105	75-125		
Surr: 1-Chlorooctadecane	21.5		"	23.4		91.9	50-150		
Surr: Triacontane	20.9		"	23.4		89.3	50-150		

##### LCS Dup (0106096-BSD1)

Prepared & Analyzed: 06/27/01

Diesel Range Organics	1260	150	mg/kg wet	1250		101	75-125	3.89	20
Surr: 1-Chlorooctadecane	26.3		"	23.4		112	50-150		
Surr: Triacontane	21.0		"	23.4		89.7	50-150		

##### Matrix Spike (0106096-MS1)

Source: M106082-08

Prepared & Analyzed: 06/27/01

Diesel Range Organics	1240	150	mg/kg dry	1590	ND	78.0	60-140		
Surr: 1-Chlorooctadecane	32.2		"	29.8		108	50-150		
Surr: Triacontane	25.9		"	29.8		86.9	50-150		

North Creek Analytical - Mobile Lab

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Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/29/01 00:06

### BTEX, MTBE and Naphthalene per EPA Method 8021B - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0106100 - MeOH Extraction

##### Blank (0106100-BLK1)

Prepared & Analyzed: 06/28/01

Benzene	ND	0.0250	mg/kg wet
Toluene	ND	0.100	"
Ethylbenzene	ND	0.100	"
Xylenes (total)	ND	0.200	"
Naphthalene	ND	1.00	"

*Surr: 4-BFB* 2.50 " 2.50 100 50-150

##### LCS (0106100-BS1)

Prepared & Analyzed: 06/28/01

Benzene	2.09	0.0250	mg/kg wet	2.50	83.6	69-138
Toluene	2.29	0.100	"	2.50	91.6	53-151
Ethylbenzene	2.62	0.100	"	2.50	105	61-141
Xylenes (total)	7.33	0.200	"	7.50	97.7	62-141
Naphthalene	3.15	1.00	"	2.50	126	65-135

*Surr: 4-BFB* 2.65 " 2.50 106 50-150

North Creek Analytical - Mobile Lab

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**Reported:**  
06/29/01 00:06

### Notes and Definitions

A-01 Acceptance criteria for continuing calibration verification standard was exceeded high. Sample results are non-detect and are not affected. DoD QSM Draft 5.9.4.2.E.1

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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**Environmental Laboratory Network**

7 of 7

### Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M106084 FINAL 06 29 01 0006.mdb Default Report (not modified)
M106084-01	8021B BTEX/MTBE/N	Naphthalene	A-01
M106084-02	8021B BTEX/MTBE/N	Naphthalene	A-01
M106084-03	8021B BTEX/MTBE/N	Naphthalene	A-01
M106084-04	8021B BTEX/MTBE/N	Naphthalene	A-01